BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to drains and roads of Yerappa layout roads in ward No 09 in Vidyaranyapura sub Division.**

			Estimate Cost:					3500000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	For CC Drain 1st Main Road		2	60.00	1.00	1.00	120.00		
	2nd Main Road		2	45.00	1.00	1.00	90.00		
	2nd Main Road 1st Cross RHS		2	30.00	1.00	1.00	60.00		
	2nd Main Road 1st Cross LHS		2	48.00	1.00	1.00	96.00		
	2nd Main Road 2nd Cross LHS		2	48.00	1.00	1.00	96.00		
	Railway Parallel Road		1	30.00	1.00	1.00	30.00		
	For Culvert		3	5.00	2.00	1.15	34.50		
	Basic Rate	84.00					**526.50**	90.72	**47764.00**
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	For CC Drain 1st Main Road		2	60.00	0.90	0.15	16.20		
	2nd Main Road		2	45.00	1.00	0.15	13.50		
	2nd Main Road 1st Cross RHS		2	30.00	1.00	0.15	9.00		
	2nd Main Road 1st Cross LHS		2	48.00	1.00	0.15	14.40		
	2nd Main Road 2nd Cross LHS		2	48.00	1.00	0.15	14.40		
	Railway Parallel Road		1	30.00	1.00	0.15	4.50		
	For Culvert		3	5.00	1.80	0.15	4.05		
	Basic Rate	3973.00					**76.05**	4290.84	**326318.00**
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
3	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2013-14 (P. 25 / I. 5.6)**	Cum							
	Culvert		3x2	5.00	0.60	0.90	**16.20**	3549.96	**57509.00**
	Basic Rate	3287.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	262.96							
	Total	**3549.96**							
4	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.3 / PWD SR 2013-14**	Sqm							
	Culvert		3x2	5.00		0.90	**27.00**	77.76	**2100.00**
	Basic Rate	72.00							
	Area Weightage @ 8%	5.76							
	Total	**77.76**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2013-14**	Cum							
	Culvert Coping		3x2	5.00	0.60	0.10	**1.80**	4779.00	**8602.00**
	Basic Rate	4425.00							
	Area Weightage @ 8%	354.00							
	Total	**4779.00**							
6	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	For CC Drain Sidewall 1st Main Road		2x4	60.00		0.60	288.00		
	2nd Main Road		2x4	45.00		0.75	270.00		
	2nd Main Road 1st Cross RHS		2x4	30.00		0.60	144.00		
	2nd Main Road 1st Cross LHS		2x4	48.00		0.60	230.40		
	2nd Main Road 2nd Cross LHS		2x4	48.00		0.60	230.40		
	Railway Parallel Road		4	30.00		0.60	144.00		
	For CC Drain 1st Main Road Bottom		2	60.00	0.60		72.00		
	2nd Main Road		2	45.00	0.60		54.00		
	2nd Main Road 1st Cross RHS		2	30.00	0.60		36.00		
	2nd Main Road 1st Cross LHS		2	48.00	0.60		57.60		
	2nd Main Road 2nd Cross LHS		2	48.00	0.60		57.60		
	Railway Parallel Road		1	30.00	0.60		18.00		
	For CC Drain 1st Main Road Covering sides		4	60.00		0.15	36.00		
	2nd Main Road		4	45.00		0.15	27.00		
	2nd Main Road 1st Cross RHS		4	30.00		0.15	18.00		
	2nd Main Road 1st Cross LHS		4	48.00		0.15	28.80		
	2nd Main Road 2nd Cross LHS		4	48.00		0.15	28.80		
	Railway Parallel Road		2	30.00		0.15	9.00		
	For Culvert Covering Slab		3	5.00		0.60	9.00		
	For Culvert Covering Slab Sides		3x2	5.00		0.25	7.50		
			3x2	1.80		0.25	2.10		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	251.00					**1768.20**	271.08	**479324.00**
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
	For CC Drain 1st Main Road Bottom		2	60.00	0.90	0.15	16.20		
	2nd Main Road		2	45.00	0.90	0.10	8.10		
	2nd Main Road 1st Cross RHS		2	30.00	0.90	0.15	8.10		
	2nd Main Road 1st Cross LHS		2	48.00	0.90	0.15	12.96		
	2nd Main Road 2nd Cross LHS		2	48.00	0.90	0.15	12.96		
	Railway Parallel Road		1	30.00	0.90	0.15	4.05		
	For CC Drain 1st Main Road Sidewall		4	60.00	0.15	0.60	21.60		
	2nd Main Road		4	45.00	0.15	0.60	16.20		
	2nd Main Road 1st Cross RHS		4	30.00	0.15	0.60	10.80		
	2nd Main Road 1st Cross LHS		4	48.00	0.15	0.60	17.28		
	2nd Main Road 2nd Cross LHS		4	48.00	0.15	0.60	17.28		
	Railway Parallel Road		2	30.00	0.15	0.60	5.40		
	For CC Drain 1st Main Road Covering slab		2	60.00	0.90	0.10	10.80		
	2nd Main Road		2	45.00	0.90	0.10	8.10		
	2nd Main Road 1st Cross RHS		2	30.00	0.90	0.10	5.40		
	2nd Main Road 1st Cross LHS		2	48.00	0.90	0.10	8.64		
	2nd Main Road 2nd Cross LHS		2	48.00	0.90	0.10	8.64		
	Railway Parallel Road		1	30.00	0.90	0.10	2.70		
	Culvert Covering Slab		3	5.00	1.80	0.23	6.30		
	Basic Rate	5222.00					**201.51**	5639.76	**1136468.00**
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
8	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qntl							
			0.70	197.01			**137.91**	7450.92	**1027534.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
9	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page	Cum							
			Vide Item No. 1				**526.50**	72.71	**38279.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic rate for haulage of materials as per item (...17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
10	**Sub Total**								**3123898.00**
11	KRIDL Service Charges and Applicable Taxes @								**343629.00**
12	For Third Party QC Charges @ 1%								**31239.00**
13	Miscellaneous and other Charges	L/S							**1234.00**
								Total	**3500000.00**
	(Rs. Thirty Five Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

35.00 Lakhs
Thirty Five Lakhs. only.

SE/Vel/360/13-14

360/13/14 21-02-2014